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### 1 [Feedback scheduling of real-time divisible loads in clusters](#)



Duc Luong, Jitender Deogun, Steve Goddard

July 2008 ACM SIGBED Review, Volume 5 Issue 2

Publisher: ACM

Full text available: [Pdf](#) (140.92 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 8, Citation Count: 0

Quality of Service (QoS) provisioning for divisible loads in clusters can be enabled using real-time scheduling theory, but is based on an important assumption: that the scheduler knows the execution time of every task in the workload. Information from ...

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### 2 [System usability evaluation for input operation using oculo-motors](#)

Minoru Nakayama, Makoto Katsukura

January 2007 AUI C '07: Proceedings of the eight Australasian conference on User interface - Volume 64, Volume 64

Publisher: Australian Computer Society, Inc.

Full text available: [Pdf](#) (342.71 KB)Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 39, Citation Count: 1

This paper investigates the relationship between oculomotors, which consist of eye-movement and pupillary change, and the traditional subjective index for "usability", to determine the possibility of evaluating Human-Computer Interaction (HCI). An evaluation ...

Keywords: blink, eye-movement, human-computer interaction, input device, oculo-motors, pupil size, usability

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### 3 [Haptic comparison of size \(relative magnitude\) in blind and sighted people](#)



Sarah A. Douglas, Shasta Willson

October 2007 Assets '07: Proceedings of the 9th international ACM SIGACCESS conference on Computers and accessibility

Publisher: ACM

Full text available: [Pdf](#) (265.27 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 23, Downloads (12 Months): 180, Citation Count: 0

Applications for blind users often involve the mapping of information such as size (magnitude) from one sensory domain (vision) onto another (sound or touch). For example, visual perception of length can be estimated directly by touch, or encoded to ...

Keywords: accessibility, blind, haptic interaction, multi-modal, phantom, visually disabled, visually impaired

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#### 4 [Sensitivity analysis of knapsack-based task scheduling on the grid](#)



Daniel C. Vanderster, Nikitas J. Dimopoulos

June 2006 ICS '06: Proceedings of the 20th annual international conference on Supercomputing

Publisher: ACM

Full text available: Pdf (801.68 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 54, Citation Count: 0

The knapsack-based task scheduler has been previously shown to provide Quality of Service to malleable tasks on computational grids. In this study, we measure the sensitivity of the knapsack-derived schedules to variations in the prescribed allocation ...

#### 5 [Opportunistic scheduling in a constraint-rich world](#)



David Johnstone, Steven Bradley

April 2005 ACM SIGBED Review, Volume 2 Issue 2

Publisher: ACM

Full text available: Pdf (51.20 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 12, Citation Count: 0

The latest planners and schedulers allow expressive domain modelling and problem definition, particularly with respect to the inclusion of constrained resource usage and inter-task dependencies. This increased complexity removes the ability to guarantee ...

#### 6 [Software portability gains realized with METAH and Ada95](#)



Bruce Lewis

April 2002 IRTAW '02: Proceedings of the 11th international workshop on Real-time Ada workshop

Publisher: ACM

Full text available: Pdf (235.40 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 26, Citation Count: 0

MetaH is an Architecture Description Language (ADL) developed to express and evaluate the software architecture of avionics and flight control systems. It is intended for not only description and analysis, but also for integration of the software components ...

#### 7 [Software portability gains realized with METAH and Ada95](#)



Bruce Lewis

December 2002 ACM SIGAda Ada Letters, Volume XXII Issue 4

Publisher: ACM

Full text available: Pdf (235.40 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 26, Citation Count: 0

MetaH is an Architecture Description Language (ADL) developed to express and evaluate the software architecture of avionics and flight control systems. It is intended for not only description and analysis, but also for integration of the software components ...

#### 8 [Distributed online localization in sensor networks using a moving target](#)



Aram Galstyan, Bhaskar Krishnamachari, Kristina Lerman, Sundeep Pattem

April 2004 IPSN '04: Proceedings of the third international symposium on Information processing in sensor networks

Publisher: ACM

Full text available: Pdf (486.63 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 21, Downloads (12 Months): 133, Citation Count: 12

We describe a novel method for node localization in a sensor network where there are a fraction of reference nodes with known locations. For application-specific sensor networks, we argue that it makes sense to treat localization through online distributed ...

#### 9 [Real-Time Localisation and Mapping with Wearable Active Vision](#)

Andrew J. Davison, Walterio W. Mayol, David W. Murray

October 2003 ISMAR '03: Proceedings of the 2nd IEEE/ACM International Symposium on Mixed and Augmented Reality

Publisher: IEEE Computer Society

Full text available:  Pdf (914.10 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 29, Citation Count: 4

We present a general method for real-time, vision-only single-camera simultaneous localisation and mapping (SLAM) - an algorithm which is applicable to the localisation of any camera moving through a scene - and study its application to the localisation ...

#### 10 [WCET-driven, code-size critical procedure cloning](#)

Paul Lokuciejewski, Heiko Falk, Peter Marwedel, Henrik Theiling

March 2008 SCOPES '08: Proceedings of the 11th international workshop on Software & compilers for embedded systems

Full text available:  Pdf (422.97 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 21, Citation Count: 0

In the domain of the worst-case execution time (WCET) analysis, loops are an inherent source of unpredictability and loss of precision since the determination of tight and safe information on the number of loop iterations is a difficult task. In particular, ...

#### 11 [ARIADNE: a dynamic indoor signal map construction and localization system](#)



Yiming Ji, Saad Biaz, Santosh Pandey, Prathima Agrawal

June 2006 MobiSys '06: Proceedings of the 4th international conference on Mobile systems, applications and services

Publisher: ACM

Full text available:  Pdf (492.00 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 236, Citation Count: 2

Location determination of mobile users within a building has attracted much attention lately due to its many applications in mobile networking including network intrusion detection problems. However, it is challenging due to the complexities of the indoor ...

Keywords: clustering, indoor radio propagation models, localization

#### 12 [Extensions to metric based model selection](#)

Yoshua Bengio, Nicolas Chapados

March 2003 The Journal of Machine Learning Research, Volume 3

Publisher: MIT Press

Full text available:  Pdf (156.01 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 31, Citation Count: 2

Metric-based methods have recently been introduced for model selection and regularization, often yielding very significant improvements over the alternatives tried (including cross-validation). All these methods require unlabeled data over which to compare ...

### 13 [Optimizing intra-task voltage scheduling using data flow analysis](#)



Dongkun Shin, Jihong Kim

January 2005 ASP-DAC '05: Proceedings of the 2005 conference on Asia South Pacific design automation

Publisher: ACM

Full text available: [Pdf](#) (757.34 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 31, Citation Count: 3

Intra-task voltage scheduling (IntraDVS), which adjusts the supply voltage within an individual task boundary, is an effective technique for developing low-power applications. In IntraDVS, slack times are estimated by analyzing program's control flow ...

### 14 [Cross-Validation Optimization for Large Scale Structured Classification Kernel Methods](#)

Matthias W. Seeger

June 2008 The Journal of Machine Learning Research, Volume 9

Publisher: MIT Press

Full text available: [Pdf](#) (325.56 KB)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 19, Citation Count: 0

We propose a highly efficient framework for penalized likelihood kernel methods applied to multi-class models with a large, structured set of classes. As opposed to many previous approaches which try to decompose the fitting problem into many smaller ...

### 15 [Clustering based large margin classification: a scalable approach using SOCP formulation](#)



J. Saketha Nath, C. Bhattacharyya, M. N. Murty

August 2006 KDD '06: Proceedings of the 12th ACM SIGKDD international conference on Knowledge discovery and data mining

Publisher: ACM

Full text available: [Pdf](#) (923.02 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 113, Citation Count: 1

This paper presents a novel Second Order Cone Programming (SOCP) formulation for large scale binary classification tasks. Assuming that the class conditional densities are mixture distributions, where each component of the mixture has a spherical covariance, ...

Keyw ords: BIRCH, Gaussian mixture models, large margin classification, scalability

### 16 [Robust finger tracking for wearable computer interfacing](#)



Sylvia M. Dominguez, Trish Keaton, Ali H. Sayed

November 2001 PUI '01: Proceedings of the 2001 workshop on Perceptive user interfaces

Publisher: ACM

Full text available: [Pdf](#) (472.19 KB)

Additional Information: [full citation](#), [appendices and supplements](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 76, Citation Count: 3

Key to the design of human-machine gesture interface applications is the ability of the machine to quickly and efficiently identify and track the hand movements of its user. In a wearable computer system equipped with head-mounted cameras, this task ...

Keyw ords: Kalman Filter Tracking, gesture interfaces, robust estimation

### 17

[Proceedings of the SIGCHI conference on Human factors in computing systems](#)



Mary Beth Rosson, David Gilmore

April 2007 proceeding

Publisher: ACM

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 0

Welcome to the CHI 2007 proceedings. We believe the technical papers and notes herein present some of the best current work in the diverse and dynamic field of human-computer interaction (HCI). CHI is the leading HCI conference. Creating the technical ...

18 [Expected current distributions for CMOS circuits](#)

Dennis J. Ciplickas, Ronald A. Rohrer

January 1997 ICCAD '96: Proceedings of the 1996 IEEE/ACM international conference on Computer-aided design

Publisher: IEEE Computer Society

Full text available: [Publisher Site](#) , Pdf (83.60 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 10, Citation Count: 0

The analysis of CMOS VLSI circuit switching current has become an increasingly important and difficult task from both a VLSI design and simulation software perspective. This paper presents a new static switching current estimation algorithm based on ...

Keyw ords: CMOS, switching current, autocorrelation, expected waveform, static analysis, statistical analysis, mean estimation, random processes, power spectral density

19 [Red Opal: product-feature scoring from reviews](#)

Christopher Scaffidi, Kevin Bierhoff, Eric Chang, Mikhael Felker, Herman Ng, Chun Jin

June 2007 EC '07: Proceedings of the 8th ACM conference on Electronic commerce

Publisher: ACM

Full text available: Pdf (711.17 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 124, Citation Count: 2

Online shoppers are generally highly task-driven: they have a certain goal in mind, and they are looking for a product with features that are consistent with that goal. Unfortunately, finding a product with specific features is extremely time-consuming ...

Keyw ords: e-commerce, feature extraction, product reviews, search

20 [CHI '07 extended abstracts on Human factors in computing systems](#)

Mary Beth Rosson, David Gilmore

April 2007 proceeding

Publisher: ACM

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 0

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